
ISP Dongle User Guide

Thank you for your purchase of an In System Programming dongle to suit ATMEL ISP compatible devices. This ISP dongle runs under control of the ATMEL ISP software, which can be downloaded from the ATMEL web site. The dongle plugs into the PC parallel port and connects to the target device by means of a 10 way ribbon cable, and has pinouts as detailed in the table below. The dongle is powered from the target device at either 5.0Volts +5% and will run down to 3.3 Volts – 5%.

As of the date of this user guide, the list of compatible ATMEL devices that can be programmed by the ISP dongle are as follows:

AT90S1200A	AT90S2313	AT90S/LS2323
AT90S/LS2343	AT90S4414	AT90S/LS4434
AT90S8515/A	AT90S/LS8535	Atmega603/L
Atmega103/L	AT89S8252	AT89S53

ATMEL frequently updates the ISP software and the device list. Check the ATMEL web site for more details and updates.

Pin connections of the 10 pin IDC connector on the rear of the ISP Dongle.

- Pin 1 GND
- Pin 2 MISO (data out from target board into ISP module)
- Pin 3 GND
- Pin 4 SCLK SCLK out from ISP module
- Pin 5 GND
- Pin 6 RST Reset out from ISP module
- Pin 7 GND
- Pin 8 LED Activity LED Low side drive
- Pin 9 Vcc
- Pin 10 MOSI (Serial data in to target board from ISP module)

Refer to the relevant device data sheet for ISP connection information.

Note that the ribbon cable provided with the dongle is a reversed cable. Pin 1 on the rear of the dongle will correspond with pin 9 of the connector at the flying end of the ribbon cable. This was done to ensure compatibility with the original ATMEL part.

Syonics Technologies P/L does not distribute or warrant in any way the function or performance of the ISP programming software.